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**All wheat** production totaled 1.88 billion bushels in 2018, up 8 percent from the revised 2017 total of 1.74 billion bushels. Area harvested for grain totaled 39.6 million acres, up 5 percent from the previous year. The United States yield was estimated at 47.6 bushels per acre, up 1.3 bushels from the previous year. The levels of production and changes from 2017 by type were: winter wheat, 1.18 billion bushels, down 7 percent; other spring wheat, 623 million bushels, up 50 percent; and Durum wheat, 77.3 million bushels, up 41 percent.

**Oat** production was estimated at 56.1 million bushels, up 14 percent from 2017. Yield was estimated at 64.9 bushels per acre, up 3.2 bushels from the previous year. Harvested area, at 865,000 acres, was 8 percent above last year.

**Barley** production was estimated at 153 million bushels, up 8 percent from the 2017 total of 142 million bushels. Average yield per acre, at 77.4 bushels, was up 4.8 bushels from the previous year. Producers seeded 2.54 million acres in 2018, up 2 percent from last year. Harvested area, at 1.98 million acres, was up 1 percent from 2017.

This report was approved on September 28, 2018.

Secretary of Agriculture
Designate

Ted A. McKinney

Agricultural Statistics Board

Chairperson Joseph L. Parsons

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Oat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

01-1-		Area planted 1			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	50	40	40	20	10	15
Arkansas	11	11	10	8	8	7
California	110	110	110	11	10	6
Colorado	55	50	95	10	9	7
Georgia	45	50	60	15	15	15
Idaho	55	50	40	15	10	10
Illinois	45	35	40	20	20	25
lowa	120	115	135	43	42	33
Kansas	120	100	120	30	25	18
Maine	25	21	21	24	20	19
Michigan	65	55	75	30	40	50
Minnesota	210	170	180	120	95	105
Missouri	45	30	35	19	13	16
Montana	60	70	70	28	18	23
Nebraska	135	110	125	25	35	22
New York	90	55	69	60	35	43
North Carolina	35	35	30	9	10	11
North Dakota	290	295	300	110	80	105
Ohio	50	60	55	25	20	30
Oklahoma	65	45	50	8	16	10
Oregon	30	25	20	10	10	5
Pennsylvania	85	70	65	50	40	35
South Carolina	17	20	19	7	8	7
South Dakota	295	290	290	110	60	95
Texas	470	455	450	60	60	50
Washington	18	16	17	7	3	4
Wisconsin	210	180	200	100	85	90
Wyoming	23	25	25	7	4	9
United States	2,829	2,588	2,746	981	801	865

See footnote(s) at end of table. --continued

# Oat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

State		Yield			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	55.0	60.0	63.0	1,100	600	945
Arkansas	73.0	85.0	75.0	584	680	525
California	65.0	65.0	70.0	715	650	420
Colorado	80.0	65.0	50.0	800	585	350
Georgia	58.0	49.0	71.0	870	735	1,065
Idaho	83.0	71.0	84.0	1,245	710	840
Illinois	81.0	79.0	83.0	1,620	1,580	2,075
lowa	76.0	77.0	63.0	3,268	3,234	2,079
Kansas	57.0	54.0	49.0	1,710	1,350	882
Maine	71.0	67.0	67.0	1,704	1,340	1,273
Michigan	58.0	54.0	63.0	1,740	2,160	3,150
Minnesota	68.0	75.0	59.0	8,160	7,125	6,195
Missouri	60.0	65.0	45.0	1,140	845	720
Montana	47.0	47.0	43.0	1,316	846	989
Nebraska	60.0	49.0	69.0	1,500	1,715	1,518
New York	55.0	55.0	54.0	3,300	1,925	2,322
North Carolina	60.0	66.0	66.0	540	660	726
North Dakota	66.0	58.0	82.0	7,260	4,640	8,610
Ohio	74.0	70.0	65.0	1,850	1,400	1,950
Oklahoma	43.0	42.0	48.0	344	672	480
Oregon	90.0	83.0	99.0	900	830	495
Pennsylvania	67.0	58.0	46.0	3,350	2,320	1,610
South Carolina	46.0	51.0	62.0	322	408	434
South Dakota	82.0	70.0	82.0	9,020	4,200	7,790
Texas	50.0	45.0	50.0	3,000	2,700	2,500
Washington	61.0	42.0	46.0	427	126	184
Wisconsin	66.0	59.0	61.0	6,600	5,015	5,490
Wyoming	55.0	85.0	57.0	385	340	513
United States	66.0	61.7	64.9	64,770	49,391	56,130

<sup>&</sup>lt;sup>1</sup> Includes area planted in preceding fall.

Barley Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Ctata		Area planted 1		Area harvested			
State	2016	2017	2018	2016	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Alaska	(X)	(X)	5	(X)	(X)	4	
Arizona	17	20	12	16	17	9	
California	85	70	65	60	28	26	
Colorado	80	70	58	75	68	52	
Delaware	35	32	25	25	16	14	
Idaho	600	530	550	580	510	530	
Kansas <sup>2</sup>	(NA)	(NA)	17	(NA)	(NA)	6	
Maine <sup>2</sup>	(NA)	(NA)	17	(NA)	(NA)	16	
Maryland	50	50	45	34	27	24	
Michigan <sup>2</sup>	(NA)	(NA)	20	(NA)	(NA)	5	
Minnesota	95	80	80	79	68	67	
Montana	990	770	790	780	565	600	
New York <sup>2</sup>	(NA)	(NA)	10	(NA)	(NA)	8	
North Carolina 2	(NA)	(NA)	11	(NA)	(NA)	8	
North Dakota	740	520	470	640	395	385	
Oregon	45	47	43	32	38	26	
Pennsylvania	55	60	45	38	45	33	
South Dakota <sup>2</sup>	(NA)	(NA)	48	(NA)	(NA)	13	
Utah	29	25	21	19	18	16	
Virginia	33	30	30	12	11	9	
Washington	110	95	85	93	85	67	
Wisconsin <sup>2</sup>	(NA)	(NA)	25	(NA)	(NA)	10	
Wyoming	` 95	` 82	71	` 82	` 63	50	
United States <sup>3</sup>	3,059	2,481	2,543	2,565	1,954	1,978	

See footnote(s) at end of table.

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### Barley Area Planted and Harvested, Yield, and Production – States and United States: **2016-2018** (continued)

01-1-		Yield			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alaska	(X)	(X)	43.0	(X)	(X)	172
Arizona	128.0	131.0	100.0	2,048	2,227	900
California	75.0	50.0	69.0	4,500	1,400	1,794
Colorado	129.0	132.0	145.0	9,675	8,976	7,540
Delaware	76.0	85.0	78.0	1,900	1,360	1,092
Idaho	107.0	95.0	101.0	62,060	48,450	53,530
Kansas <sup>2</sup>	(NA)	(NA)	31.0	(NA)	(NA)	186
Maine <sup>2</sup>	(NA)	(NA)	73.0	(NA)	(NA)	1,168
Maryland	72.0	76.0	70.0	2,448	2,052	1,680
Michigan <sup>2</sup>	(NA)	(NA)	43.0	(NA)	(NA)	215
Minnesota	66.0	76.0	76.0	5,214	5,168	5,092
Montana	60.0	51.0	56.0	46,800	28,815	33,600
New York <sup>2</sup>	(NA)	(NA)	58.0	(NA)	(NA)	464
North Carolina 2	(NA)	(NA)	80.0	(NA)	(NA)	640
North Dakota	67.Ó	63.Ó	74.0	42,880	24,885	28,490
Oregon	67.0	62.0	53.0	2,144	2,356	1,378
Pennsylvania	75.0	70.0	63.0	2,850	3,150	2,079
South Dakota 2	(NA)	(NA)	55.0	(NA)	(NA)	715
Utah	82.0	75.0	86.0	1,558	1,350	1,376
Virginia	67.0	73.0	70.0	804	803	630
Washington	77.0	53.0	73.0	7,161	4,505	4,891
Wisconsin <sup>2</sup>	(NA)	(NA)	45.0	(NA)	(NA)	450
Wyoming	96.0	102.0	100.0	7,872	6,426	5,000
United States <sup>3</sup>	77.9	72.6	77.4	199,914	141,923	153,082

<sup>(</sup>NA) Not available.

(X) Not applicable.

<sup>1</sup> Includes area planted in preceding fall.

<sup>2</sup> Estimates began in 2018.

<sup>3</sup> Beginning in 2018, United States total includes data for Alaska. For 2016 and 2017, Alaska data is not included in United States total.

All Wheat Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

21.1		Area planted 1			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	230	150	160	170	100	110
Arizona	111	115	91	103	107	74
Arkansas	195	200	175	115	125	95
California	480	420	420	217	182	143
Colorado	2,361	2,260	2,260	2,200	2,029	1,954
Delaware	70	75	75	65	69	45
Florida	25	20	15	17	14	10
Georgia	180	160	200	110	70	70
Idaho	1,190	1,175	1,191	1,125	1,109	1,136
Illinois	520	500	600	470	470	560
11111015	520	500	600	470	470	500
Indiana	330	290	310	280	240	260
lowa	25	16	16	17	8	6
Kansas	8,500	7,600	7,700	8,200	6,950	7,300
Kentucky	510	480	450	400	310	300
Louisiana	25	20	15	20	13	10
Maryland	360	410	360	260	185	200
Michigan	610	480	510	570	425	470
Minnesota	1,321	1,170	1,621	1,268	1,135	1,575
Mississippi	65	45	55	50	25	30
Missouri	690	640	740	570	540	520
Montana	5,130	5,140	5,390	4,975	4,665	5,165
Nebraska	1,370	1.120	1.100	1,310	1,020	1.010
Nevada	15	29	23	9	10	8
New Jersey	25	23	18	21	17	15
New Mexico	345	330	315	210	135	105
New York	120	140	110	115	125	95
North Carolina	420	450	460	355	375	370
North Dakota	7,590	6,680	7,735	7,405	6,260	7,635
Ohio	580	460	490	560	435	450
Oklahoma	5,000	4,500	4,400	3,500	2,900	2,500
Orogon	810	775	800	797	763	770
Oregon		-		-		-
Pennsylvania	190	210	195	150	150	145
South Carolina	60	90	80	50	75	65
South Dakota	2,270	1,887	1,883	2,157	1,196	1,628
Tennessee	400	370	380	335	275	285
Texas	5,000	4,700	4,500	2,800	2,350	1,750
Utah	129	134	130	120	120	103
Virginia	210	210	230	175	145	155
Washington	2,240	2,195	2,220	2,200	2,140	2,165
West Virginia	7	8	7	4	4	3
Wisconsin	270	210	240	250	170	200
Wyoming	140	135	130	125	105	115
United States	50,119	46,022	47,800	43,850	37,541	39,605

See footnote(s) at end of table.

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# All Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

Stata		Yield			Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Alabama	70.0	77.0	72.0	11.900	7.700	7.92
Arizona	97.8	100.8	102.4	10,073	10,789	7,58
Arkansas	54.0	52.0	55.0	6,210	6.500	5.22
California	79.7	68.2	81.2	17,302	12,404	11,60
Colorado	48.2	43.2	36.1	106.000	87,598	70.50
Delaware	67.0	73.0	71.0	4,355	5,037	3,19
Florida	30.0	37.0	36.0	510	518	36
Georgia	46.0	47.0	54.0	5,060	3,290	3,78
daho	91.4	81.8	91.9	102,795	90,723	104,41
llinois	74.0	76.0	66.0	34,780	35,720	36,96
	24.0	74.0	74.0	00.000	47.700	40.46
ndiana	81.0	74.0	71.0	22,680	17,760	18,46
owa	63.0	68.0	58.0	1,071	544	34
Kansas	57.0	48.0	38.0	467,400	333,600	277,40
Kentucky	80.0	77.0	66.0	32,000	23,870	19,80
_ouisiana	45.0	46.0	65.0	900	598	65
Maryland	64.0	71.0	63.0	16,640	13,135	12,60
Michigan	89.0	79.0	76.0	50,730	33,575	35,72
/linnesota	59.0	66.9	59.0	74,828	75,935	92,93
Mississippi	48.0	58.0	49.0	2,400	1,450	1,47
Missouri	70.0	68.0	59.0	39,900	36,720	30,68
Montana	42.4	27.3	38.3	210,875	127,430	197,63
Nebraska	54.0	46.0	49.0	70,740	46,920	49,49
Nevada	72.3	106.0	112.5	651	1,060	90
New Jersey	64.0	64.0	62.0	1,344	1,088	93
New Mexico	22.0	30.0	15.0	4,620	4,050	1,57
New York	74.0	67.0	69.0	8,510	8,375	6,55
North Carolina	41.0	55.0	57.0	14,555	20,625	21,09
North Dakota	45.0	37.9	47.6	332,978	237,133	363,48
Ohio	80.0	74.0	75.0	44,800	32,190	33,75
Oklahoma	39.0	34.0	28.0	136,500	98,600	70,00
	50.4	20.0	07.0	00.007	40.000	E4 E4
Oregon	50.1	63.0	67.0	39,937	48,069	51,59
Pennsylvania	68.0	72.0	65.0	10,200	10,800	9,42
South Carolina	43.0	49.0	54.0	2,150	3,675	3,5
South Dakota	51.6	34.8	44.4	111,281	41,678	72,29
Tennessee	73.0	70.0	65.0	24,455	19,250	18,52
exas	32.0	29.0	32.0	89,600	68,150	56,00
Jtah	59.9	52.0	52.0	7,184	6,240	5,3
/irginia	53.0	66.0	60.0	9,275	9,570	9,30
Vashington	71.5	66.6	70.8	157,290	142,500	153,2°
West Virginia	61.0	69.0	46.0	244	276	1;
Nisconsin	79.0	68.0	71.0	19,750	11,560	14,20
Nyoming	34.0	28.0	34.0	4,250	2,940	3,9
United States	52.7	46.3	47.6	2,308,723	1,739,645	1,884,45

<sup>&</sup>lt;sup>1</sup> Includes area planted in preceding fall.

# Winter Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

24.4		Area planted 1			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Alabama	230	150	160	170	100	110
Arizona	14	25	20	7	18	4
Arkansas	195	200	175	115	125	95
California	425	385	380	170	155	110
Colorado	2,350	2,250	2,250	2,190	2,020	1,950
Delaware	70	75	75	65	69	45
Florida	25	20	15	17	14	10
Georgia	180	160	200	110	70	70
Idaho	770	720	720	720	670	680
Illinois	520	500	600	470	470	560
Indiana	330	290	310	280	240	260
lowa	25	16	16	17	8	6
Kansas	8,500	7,600	7,700	8,200	6,950	7,300
Kentucky	510	480	450	400	310	300
Louisiana	25	20	15	20	13	10
Maryland	360	410	360	260	185	200
Michigan	610	480	510	570	425	470
Minnesota	11	10	11	8	5	5
Mississippi	65	45	55	50	25	30
Missouri	690	640	740	570	540	520
Montana	2,250	1,750	1,650	2,150	1,590	1,570
Nebraska	1,370	1,120	1,100	1,310	1,020	1,010
Nevada	10	14	13	6	5	5
New Jersey	25	23	18	21	17	15
New Mexico	345	330	315	210	135	105
New York	120	140	110	115	125	95
North Carolina	420	450	460	355	375	370
North Dakota	130	70	85	120	35	70
Ohio	580	460	490	560	435	450
Oklahoma	5,000	4,500	4,400	3,500	2,900	2,500
Oregon	720	700	720	710	690	695
Pennsylvania	190	210	195	150	150	145
South Carolina	60	90	80	50	75	65
South Dakota	1,180	910	830	1,100	520	660
Tennessee	400	370	380	335	275	285
Texas	5,000	4,700	4,500	2,800	2,350	1,750
Utah	120	120	120	112	108	94
Virginia	210	210	230	175	145	155
Washington	1,700	1,700	1,700	1,670	1,650	1,650
West Virginia	7	8	7	4	4	3
Wisconsin	270	210	240	250	170	200
Wyoming	140	135	130	125	105	115
United States	36,152	32,696	32,535	30,237	25,291	24,742

See footnote(s) at end of table. --continued

# Winter Wheat Planted and Harvested, Yield, and Production – States and United States: 2016-2018 (continued)

Country   Coun	0		Yield			Production	
Alabama	State	2016	2017	2018	2016	2017	2018
Arizona 95.0 100.0 40.0 665 1,800 11 Arizona 54.0 52.0 55.0 6,210 6,500 5.22 California 78.0 64.0 77.0 13,260 9,920 8.44 Colorado 48.0 43.0 36.0 105,120 86,860 70,22 Delaware 67.0 73.0 71.0 4,355 5,037 3.15 Florida 30.0 37.0 36.0 5110 518 33 Georgia 46.0 47.0 54.0 5,060 3,290 3,77 Idaho 94.0 80.0 90.0 67,680 53,600 3,290 3,77 Idaho 94.0 80.0 90.0 67,680 53,600 61,22 Illinois 74.0 76.0 66.0 34,780 35,720 36,96 Indiana 81.0 74.0 71.0 22,680 17,760 18,46 Iowa 63.0 68.0 58.0 1071 544 34 Kansas 57.0 48.0 38.0 467,400 333,600 277,4 Kansas 57.0 48.0 38.0 467,400 333,600 277,40 Kansas 57.0 48.0 38.0 467,400 333,600 277,40 Kansas 64.0 71.0 63.0 65.0 900 90,988 Maryland 64.0 71.0 63.0 16,640 13,135 12,660 Maryland 64.0 71.0 63.0 16,640 13,135 12,660 Maryland 64.0 71.0 63.0 16,640 13,135 12,660 Maryland 70.0 65.0 900 36,720 33,575 35,720 Minnesota 61.0 45.0 60.0 59.0 39,900 36,720 30,660 Montana 49.0 42.0 50.0 10,355 66,780 78,50 Montana 49.0 42.0 50.0 15,55 66,780 78,50 Montana 49.0 42.0 50.0 15,50 66,780 78,50 Montana 49.0 50.0 66,0 60.0 60.0 9,275 9,570 9,570 9,570 Montana 50.0 60.0 60.0 60.0 9,275 9,570 9,570 9,570 Montana 50.0 60.0 60.0 60.0 9,2		(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arkansas 54.0 52.0 55.0 6.210 6.500 5.22 California 78.0 64.0 77.0 13.260 9.920 8.47 Colorado 48.0 43.0 36.0 105.120 86.860 70.22 California 78.0 64.0 43.0 36.0 105.120 86.860 70.22 California 78.0 64.0 43.0 36.0 105.120 86.860 70.22 California 30.0 37.0 36.0 510 518 33.5	Alabama	70.0	77.0	72.0	11,900	7,700	7,920
California         78.0         64.0         77.0         13,260         9,920         8.47           Colorado         48.0         43.0         36.0         105,120         86,860         70.2           Delaware         67.0         73.0         71.0         4,355         5,037         315           Florida         30.0         37.0         36.0         510         518         3           Georgia         46.0         47.0         54.0         5,060         3,290         3,76           Idaho         94.0         80.0         90.0         67,680         53,600         61.2           Ilmidana         81.0         74.0         76.0         66.0         34,780         35,720         36.9           Indiana         81.0         74.0         71.0         22,680         17,760         18.4         10wa         10wa         63.0         68.0         58.0         1,071         544         33.7         18.4         10wa         10wa         33.0         46.7         40         33.3         46.7         40         33.3         60         27.7         40         1.0         1.0         1.0         1.0         1.0         1.0         1.0		95.0	100.0	40.0	665	1,800	160
Colorado         48,0         43,0         36,0         105,120         86,860         70,22           Delaware         67,0         73,0         71,0         4,355         5,037         3,11           Florida         30,0         37,0         36,0         510         518         36           Georgia         46,0         47,0         54,0         5,060         3,290         3,78           Idaho         94,0         80,0         90,0         67,880         53,600         61,22           Ildiana         81,0         74,0         76,0         66,0         34,780         35,720         36,98           Indiana         81,0         74,0         71,0         22,680         17,760         18,46         18,46           Iowa         63,0         68,0         58,0         1,071         544         23,48           Kansas         57,0         48,0         38,0         467,400         33,600         277,44         43,44         43,44         43,44         43,44         43,44         44,44         43,44         43,44         43,44         43,44         43,44         43,44         43,44         43,44         43,44         43,44         43,44         <	Arkansas	54.0	52.0	55.0	6,210	6,500	5,225
Colorado         48.0         43.0         36.0         105,120         88,860         70,27           Delaware         67.0         73.0         71.0         4,355         5,037         3,15           Florida         30.0         37.0         36.0         51.0         518         38           Georgia         46.0         47.0         54.0         5,060         3,290         3,77           Idaho         94.0         80.0         90.0         67,680         53,600         61,22           Ildiana         81.0         74.0         76.0         66.0         34,780         35,720         36,98           Indiana         81.0         74.0         76.0         66.0         34,780         35,720         36,98           Indiana         81.0         74.0         71.0         22,680         17,760         18,46         48,0           Indward         63.0         68.0         58.0         1,071         544         23           Kansas         57.0         48.0         38.0         467,40         33,00         22,000         23,870         19,86           Kentucky         80.0         77.0         60.0         50.0         90.0 <td>California</td> <td>78.0</td> <td>64.0</td> <td>77.0</td> <td>13,260</td> <td>9,920</td> <td>8,470</td>	California	78.0	64.0	77.0	13,260	9,920	8,470
Delaware         67.0         73.0         71.0         4,355         5,037         3,15           Florida         30.0         37.0         36.0         510         518         33           Georgia         46.0         47.0         54.0         5,060         3,290         3,75           Idaho         94.0         80.0         90.0         67,680         53,600         53,600           Illinois         74.0         76.0         66.0         34,780         35,720         36,96           Indiana         81.0         74.0         71.0         22,680         17,760         18,46           Iowa         63.0         68.0         58.0         1,071         544         34           Karnsas         57.0         48.0         38.0         467,400         333,600         22,77         19,80           Louisiana         45.0         46.0         65.0         900         598         66           Maryland         64.0         71.0         63.0         16,640         13,135         12,60           Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Minscistaippi         48.0<		48.0	43.0	36.0	105,120	86,860	70,200
Florida		67.0	73.0	71.0	4,355	5,037	3,195
Georgia         46.0         47.0         54.0         5,060         3,290         3,78           Idaho         94.0         80.0         90.0         67,680         53,600         61,22           Illinois         74.0         76.0         66.0         34,780         35,720         36,86           Indiana         81.0         74.0         71.0         22,680         17,760         18,46           Iowa         63.0         68.0         58.0         1,071         544         33           Kansas         57.0         48.0         38.0         467,400         333,600         277,44           Kentucky         80.0         77.0         66.0         32,000         23,870         19,86           Louisiana         45.0         46.0         65.0         900         598         66           Maryland         64.0         71.0         63.0         16,640         13,135         12,60           Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Missouri         70.0 <td< td=""><td>Florida</td><td>30.0</td><td>37.0</td><td>36.0</td><td>· ·</td><td>·</td><td>360</td></td<>	Florida	30.0	37.0	36.0	· ·	·	360
Idaho							3,780
Illinois							61,200
lowa         63.0         68.0         58.0         1,071         544         33           Kansas         57.0         48.0         38.0         467,400         333,600         277,40           Kentucky         80.0         77.0         66.0         32,000         23,870         19,86           Louisiana         45.0         46.0         65.0         900         598         66           Maryland         64.0         71.0         63.0         16,640         13,135         12,66           Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Minnesota         61.0         45.0         60.0         488         225         33           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Mississippi         48.0         49.0         70,740         46,920         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0					· ·	,	36,960
lowa         63.0         68.0         58.0         1,071         544         34           Kansas         57.0         48.0         38.0         467,400         333,600         277,40           Kentucky         80.0         77.0         66.0         32,000         23,870         19,86           Louisiana         45.0         46.0         65.0         900         598         66           Maryland         64.0         71.0         63.0         16,640         13,135         12,66           Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Minnesota         61.0         45.0         60.0         488         225         35,73           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Mississippi         48.0         49.0         70,740         46,920         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0	Indiana	81.0	74.0	71.0	22.680	17.760	18,460
Kansas         57.0         48.0         38.0         467.400         333.600         277.4           Kentucky         80.0         77.0         66.0         32,000         23,870         19,80           Louisiana         45.0         46.0         65.0         900         598         65           Maryland         64.0         71.0         63.0         16,640         13,135         12,60           Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Mincissal         61.0         45.0         60.0         488         225         33           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Missouri         70.0         68.0         59.0         39,900         36,720         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,45           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0					,	,	348
Kentucky         80.0         77.0         66.0         32,000         23,870         19,86           Louisiana         45.0         46.0         65.0         900         598         66           Maryland         64.0         71.0         63.0         16,640         13,135         12,66           Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Minesota         61.0         45.0         60.0         488         225         3           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Mississippi         48.0         49.0         70,740         46,920         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           Nevada         75.0         107.0         120.0         450         535         60           New Mexico         22.0         30.0							277,400
Louisiana					,	,	19,800
Maryland         64.0         71.0         63.0         16,640         13,135         12,66           Michigan         89.0         79.0         76.0         50,730         33,575         35,77           Minnesota         61.0         45.0         60.0         488         225         33           Missouri         70.0         68.0         58.0         49.0         2,400         1,450         1,47           Missouri         70.0         68.0         59.0         39,900         36,720         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           Nevada         75.0         107.0         120.0         450         535         60           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New Jorth Carolina	-		-		,	,	650
Michigan         89.0         79.0         76.0         50,730         33,575         35,72           Minnesota         61.0         45.0         60.0         488         225         30           Mississipi         48.0         58.0         49.0         2,400         1,450         1,47           Missouri         70.0         68.0         59.0         39,900         36,720         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           Nevada         75.0         107.0         120.0         450         535         60           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Dakota         41.0         55.0         57.0         14,555         20,625         21,08           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Oklahoma         39.0							
Minnesota         61.0         45.0         60.0         488         225         33           Mississippi         48.0         58.0         49.0         2,400         1,450         1,450           Missiouri         70.0         68.0         59.0         39,900         36,720         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           New Jaresey         64.0         64.0         62.0         1,344         1,088         93           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Ohio         80.0	_						,
Mississippi         48.0         58.0         49.0         2,400         1,450         1,47           Missouri         70.0         68.0         59.0         39,900         36,720         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           Nevada         75.0         107.0         120.0         450         535         66           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,05           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0<							300
Missouri         70.0         68.0         59.0         39,900         36,720         30,68           Montana         49.0         42.0         50.0         105,350         66,780         78,50           Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           Nevada         75.0         107.0         120.0         450         535         60           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,09           North Carolina         41.0         55.0         57.0         14,555         20,625         21,09           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Okidahma         39.0						-	
Nebraska         54.0         46.0         49.0         70,740         46,920         49,45           Nevada         75.0         107.0         120.0         450         535         60           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,08           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Dakota         58					,	,	30,680
Nebraska         54.0         46.0         49.0         70,740         46,920         49,48           Nevada         75.0         107.0         120.0         450         535         60           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,08           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina	Montana	40.0	42.0	50.0	105 350	66 790	78 500
Nevada         75.0         107.0         120.0         450         535         60           New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,08           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,55           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
New Jersey         64.0         64.0         62.0         1,344         1,088         93           New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,00           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Texas					-, -		·
New Mexico         22.0         30.0         15.0         4,620         4,050         1,57           New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,09           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44.800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas							
New York         74.0         67.0         69.0         8,510         8,375         6,55           North Carolina         41.0         55.0         57.0         14,555         20,625         21,09           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah					,	,	
North Carolina         41.0         55.0         57.0         14,555         20,625         21,095           North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia							
North Dakota         48.0         37.0         43.0         5,760         1,295         3,01           Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Wast Virginia					· ·		,
Ohio         80.0         74.0         75.0         44,800         32,190         33,75           Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Wast Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0<		-					,
Oklahoma         39.0         34.0         28.0         136,500         98,600         70,00           Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin					,		,
Oregon         50.0         63.0         67.0         35,500         43,470         46,56           Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming <t< td=""><td></td><td></td><td>-</td><td></td><td>,</td><td>,</td><td>,</td></t<>			-		,	,	,
Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91	Oklanoma	39.0	34.0	28.0	136,500	98,600	70,000
Pennsylvania         68.0         72.0         65.0         10,200         10,800         9,42           South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91	Oregon	50.0	63.0	67.0	35.500	43.470	46,565
South Carolina         43.0         49.0         54.0         2,150         3,675         3,51           South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91		68.0	72.0	65.0	,	,	9.425
South Dakota         58.0         40.0         48.0         63,800         20,800         31,68           Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91			-		,	,	3,510
Tennessee         73.0         70.0         65.0         24,455         19,250         18,52           Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91	South Dakota				,	,	31,680
Texas         32.0         29.0         32.0         89,600         68,150         56,00           Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91							18,525
Utah         60.0         52.0         52.0         6,720         5,616         4,88           Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91					· ·	·	,
Virginia         53.0         66.0         60.0         9,275         9,570         9,30           Washington         78.0         73.0         76.0         130,260         120,450         125,40           West Virginia         61.0         69.0         46.0         244         276         13           Wisconsin         79.0         68.0         71.0         19,750         11,560         14,20           Wyoming         34.0         28.0         34.0         4,250         2,940         3,91					· ·	·	·
Washington     78.0     73.0     76.0     130,260     120,450     125,40       West Virginia     61.0     69.0     46.0     244     276     13       Wisconsin     79.0     68.0     71.0     19,750     11,560     14,20       Wyoming     34.0     28.0     34.0     4,250     2,940     3,91						,	9,300
West Virginia     61.0     69.0     46.0     244     276     13       Wisconsin     79.0     68.0     71.0     19,750     11,560     14,20       Wyoming     34.0     28.0     34.0     4,250     2,940     3,91	ŭ				,	·	,
Wisconsin     79.0     68.0     71.0     19,750     11,560     14,20       Wyoming     34.0     28.0     34.0     4,250     2,940     3,91							123,400
Wyoming							
					-,		3,910
United States	United States	55.3	50.2	47.9	1,672,582	1,269,437	1,183,939

<sup>&</sup>lt;sup>1</sup> Includes area planted in preceding fall.

# Other Spring Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Ctata		Area planted			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Colorado	11	10	10	10	9	4
Idaho	410	430	460	395	415	445
Minnesota	1,310	1,160	1,610	1,260	1,130	1,570
Montana	2,100	2,500	2,900	2,060	2,290	2,820
Nevada	5	15	10	3	5	3
North Dakota	6,000	5,350	6,550	5,850	5,050	6,490
Oregon	90	75	80	87	73	75
South Dakota	1,080	970	1,050	1,050	670	965
Utah	9	14	10	8	12	9
Washington	540	495	520	530	490	515
United States	11,555	11,019	13,200	11,253	10,144	12,896
Ctata	Yield				Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Colorado	88.0	82.0	76.0	880	738	304
Idaho	87.0	85.0	95.0	34,365	35,275	42,275
Minnesota	59.0	67.0	59.0	74,340	75,710	92,630
Montana	36.0	21.0	34.0	74,160	48,090	95,880
Nevada	67.0	105.0	100.0	201	525	300
North Dakota	46.0	41.0	49.0	269,100	207,050	318,010
Oregon	51.0	63.0	67.0	4,437	4,599	5,025
South Dakota	45.0	31.0	42.0	47,250	20,770	40,530
Utah	58.0	52.0	52.0	464	624	468
Washington	51.0	45.0	54.0	27,030	22,050	27,810
United States	47.3	41.0	48.3	532,227	415,431	623,232

## Durum Wheat Area Planted and Harvested, Yield, and Production – States and United States: 2016-2018

Ctata		Area planted			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Arizona California Idaho Montana North Dakota South Dakota	97 55 10 780 1,460 10	90 35 25 890 1,260 7	71 40 11 840 1,100 3	96 47 10 765 1,435 7	89 27 24 785 1,175 6	70 33 11 775 1,075 3
United States	2,412	2,307	2,065	2,360	2,106	1,967
State	Yield				Production	
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Arizona	98.0 86.0 75.0 41.0 40.5 33.0	101.0 92.0 77.0 16.0 24.5 18.0	106.0 95.0 85.0 30.0 39.5 28.0	9,408 4,042 750 31,365 58,118 231	8,989 2,484 1,848 12,560 28,788 108	7,420 3,135 935 23,250 42,463 84
United States	44.0	26.0	39.3	103,914	54,777	77,287

## Wheat Production by Class - United States: 2016-2018

[Wheat class estimates are based on the latest available data including both surveys and administrative data]

Crop	2016	2017	2018	
	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)	
Winter				
Hard red	1,082,005	750,332	662,249	
Soft red	345,230	292,156	285,558	
Hard white	25,478	23,726	19,347	
Soft white	219,869	203,223	216,785	
Spring				
Hard red	491,325	384,193	587,007	
Hard white	7,539	8,730	13,510	
Soft white	33,363	22,508	22,715	
Durum	103,914	54,777	77,287	
Total	2,308,723	1,739,645	1.884.458	

#### **Wheat Class Percentage Estimates**

The following percentages are the basis for the United States wheat production by class estimates each year. These estimates are based on the latest varietal or class survey data available. These end-of-season percentages will be used during the 2019 forecast season. However, if an unusual situation significantly distorts a State's normal distribution, then updated percentages will be used to forecast the production by class.

Winter Wheat Production Distribution by Class - States: 2017 and 2018

Stata	Hard	d red	Soft	red	Hard	white	Soft v	white
State	2017	2018	2017	2018	2017	2018	2017	2018
	(percent)							
Alabama	-	2	100	98	-	-	-	-
Arizona	99	99	-	-	1	1	-	_
Arkansas	-	-	100	99	-	1	-	_
California	91	88	-	-	5	7	4	5
Colorado	89	91	-	-	11	9	-	-
Delaware	-	-	100	100	-	-	-	-
Florida	1	-	86	92	-	-	13	8
Georgia	-	-	100	99	-	-	-	1
Idaho	19	20	-	-	-	-	81	80
Illinois	-	-	100	100	-	-	-	-
Indiana	-	-	100	100	-	-	-	-
lowa	52	48	48	52	-	-	-	-
Kansas	97	96	-	1	3	3	-	-
Kentucky	-	-	100	100	-	-	-	-
Louisiana	-	-	100	100	-	-	-	-
Maryland	-	-	100	100	-	-	-	-
Michigan	-	-	56	59	-	=	44	41
Minnesota	99	100	-	=	1	=	-	-
Mississippi	-	-	100	100	-	-	-	-
Missouri	1	1	99	99	-	=	-	-
Montana	100	100	-	-	-	-	-	-
Nebraska	93	93	-	-	7	7	-	-
Nevada	25	36	-	-	-	-	75	64
New Jersey	-	-	100	99	-	-	-	1
New Mexico	100	100	-	-	-	-	-	-
New York	4	3	92	94	-	-	4	3
North Carolina	-	-	100	100	-	-	-	-
North Dakota	99	100	-	=	1	=	-	-
Ohio	=	-	100	100	-	=	-	-
Oklahoma	99	99	1	1	-	-	-	-
Oregon	8	8	-	-	-	-	92	92
Pennsylvania	1	1	98	98	-	-	1	1
South Carolina	-	-	100	100	-	-	-	-
South Dakota	100	100	-	-	-	-	-	-
Tennessee	-	-	100	100	-	-	-	-
Texas	94	93	6	7	-	-	-	-
Utah	75	72	-	-	1	1	24	27
Virginia	-	-	100	100	-	-	-	-
Washington	15	14	-	-	-	-	85	86
West Virginia	5	9	94	90	-	-	1	1
Wisconsin	3	3	97	97	-	-	-	-
Wyoming	90	86	-	-	10	14	-	-

<sup>-</sup> Represents zero.

## Other Spring Wheat (excluding Durum) Production Distribution by Class - States: 2017 and 2018

State -	Hard	l red	Hard	Hard white Soft white		
	2017	2018	2017	2018	2017	2018
	(percent)	(percent)	(percent)	(percent)	(percent)	(percent)
Colorado	45	66	14	15	41	19
Idaho	52	50	24	31	24	19
Minnesota	100	100	-	-	-	-
Montana	100	100	-	-	-	-
Nevada	-	6	10	4	90	90
North Dakota	100	100	-	-	-	-
Oregon	55	66	1	1	44	33
South Dakota	100	100	-	-	-	-
Utah	55	57	10	4	35	39
Washington	50	54	=	1	50	45

<sup>-</sup> Represents zero.

### **Winter Wheat Head Population**

The National Agricultural Statistics Service conducted objective yield surveys in 10 winter wheat estimating States during 2018. Randomly selected plots in winter wheat fields were visited monthly from May through harvest to obtain specific counts and measurements. Data in this table are actual field counts from this survey.

Winter Wheat Heads per Square Foot - Selected States: 2014-2018

State	2014	2015	2016	2017	2018
	(number)	(number)	(number)	(number)	(number)
Colorado					
July	42.4	51.1	43.0	43.4	40.6
August	43.2	49.3	43.6	43.2	41.0
Final	43.4	49.3	43.6	43.2	41.0
Illinois					
July	63.5	56.7	57.4	56.4	60.9
August	63.7	56.9	57.3	56.4	60.9
Final	63.7	56.9	57.3	56.4	60.9
Kansas					
July	36.4	43.1	54.7	44.3	37.3
August	36.4	43.1	54.7	44.6	37.3
Final	36.4	43.1	54.7	44.6	37.3
Missouri					
July	51.2	52.5	53.7	53.9	53.7
August	50.9	52.5	53.7	53.9	53.7
Final	50.9	52.5	53.7	53.9	53.7
Montana					
July	43.4	48.9	54.6	44.4	44.1
August	44.2	47.7	55.2	46.2	44.8
Final	44.2	47.7	55.2	46.2	44.7
Nebraska	40.0	4-0			
July	48.2	47.9	60.2	52.5	50.5
August	48.2	47.6	60.3	53.3	50.4
Final	48.2	47.6	60.3	53.3	50.4
Ohio	50.0	54.0	50.0	50.0	70.0
July	58.8	51.0	58.0	58.2	70.3
August	58.4 58.4	51.2 51.2	58.0 58.0	58.2 58.2	70.3 70.3
1 IIIai	30.4	31.2	30.0	30.2	70.5
Oklahoma	24.0	20.6	44.0	25.7	32.9
July August	34.9 34.9	39.6 39.4	41.8 41.8	35.7 35.7	32.9
Final	34.9	39.4	41.8	35.7	32.4
T mai	04.0	00.4	41.0	00.7	02.4
Texas	22.0	24.2	24.4	26.6	30.0
July August	32.8 32.8	34.3 34.3	34.4 34.4	26.6 26.8	30.9 30.9
Final	33.1	34.2	34.5	26.8	31.1
Washington					
Washington July	32.3	31.3	36.1	34.3	41.8
August	32.1	31.3	35.3	35.8	42.3
Final	32.3	31.3	35.5	35.7	42.3
10 State					
July	39.5	42.8	48.3	41.2	40.1
August	39.6	42.4	48.4	41.7	40.1
Final	39.5	42.4	48.4	41.7	40.2

### Rye Area Planted and Harvested, Yield, and Production - States and United States: 2016-2018

Ctoto		Area planted 1			Area harvested	
State	2016	2017	2018	2016	2017	2018
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
Georgia Oklahoma		210 260	190 240	30 75	15 45	15 50
Other States <sup>2</sup>	1,431	1,491	1,581	309	226	208
United States	1,891	1,961	2,011	414	286	273
State	Yield			Production		
State	2016	2017	2018	2016	2017	2018
	(bushels)	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	(1,000 bushels)
Georgia Oklahoma		19.0 24.0	26.0 22.0	630 1,875	285 1,080	390 1,100
Other States <sup>2</sup>	35.4	36.9	33.4	10,946	8,331	6,942
United States	32.5	33.9	30.9	13,451	9,696	8,432

Includes area planted in preceding fall.
 Other States include: Illinois, Kansas, Maine, Maryland, Michigan, Minnesota, Nebraska, New Jersey, New York, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, and Wisconsin.

# Small Grain Annual Summary Area Planted and Harvested, Yield, and Production in Domestic Units – United States: 2017-2018

Cran	Area pla	inted	Area harve	ested	
Crop	2017	2018	2017	2018	
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	
Barley	2,481	2,543	1,954	1,978	
Oats	2,588	2,746	801	865	
Rye	1,961	2,011	286	273	
Wheat, all	46,022	47,800	37,541	39,605	
Winter	32,696	32,535	25,291	24,742	
Durum	2,307	2,065	2,106	1,967	
Other spring	11,019	13,200	10,144	12,896	
Cron	Yield per	acre	Production		
Crop	2017	2018	2017	2018	
	(bushels)	(bushels)	(1,000 bushels)	(1,000 bushels)	
Barley	72.6	77.4	141,923	153,082	
Oats	61.7	64.9	49,391	56,130	
Rye	33.9	30.9	9,696	8,432	
Wheat, all	46.3	47.6	1,739,645	1,884,458	
Winter	50.2	47.9	1,269,437	1,183,939	
Durum	26.0	39.3	54,777	77,287	
Other spring	41.0	48.3	415,431	623,232	

# Small Grain Annual Summary Area Planted and Harvested, Yield, and Production in Metric Units – United States: 2017-2018

Cron	Area pla	anted	Area ha	rvested	
Crop	2017	2018	2017	2018	
	(hectares)	(hectares)	(hectares)	(hectares)	
Barley	1,004,040	1,029,130	790,760	800,480	
Oats	1,047,340	1,111,280	324,160	350,060	
Rye	793,600	813,830	115,740	110,480	
Wheat, all	18,624,640	19,344,180	15,192,470	16,027,750	
Winter	13,231,740	13,166,590	10,235,010	10,012,840	
Durum	933,620	835,680	852,280	796,030	
Other spring	4,459,280	5,341,910	4,105,180	5,218,880	
Crop	Yield per h	nectare	Production		
Стор	2017	2018	2017	2018	
	(metric tons)	(metric tons)	(metric tons)	(metric tons)	
Barley	3.91	4.16	3,090,010	3,332,970	
Oats	2.21	2.33	716,910	814,720	
Rye	2.13	1.94	246,290	214,180	
Wheat, all	3.12	3.20	47,345,380	51,286,540	
Winter	3.38	3.22	34,548,410	32,221,540	
Durum	1.75	2.64	1,490,790	2,103,410	
Other spring	2.75	3.25	11,306,180	16,961,600	

#### **Crop Comments**

**Oats:** Production in 2018 was estimated at 56.1 million bushels, up 14 percent from 2017. Yield was estimated at 64.9 bushels per acre, up 3.2 bushels from the previous year. Harvested area, at 865,000 acres, was 8 percent above the previous year. Record low acres were harvested in Arkansas, California, Georgia, Idaho, Iowa, Maine, Oregon, Pennsylvania, and South Carolina.

The largest increases in production from 2017 occurred in the Dakotas where yields were up from the previous year, as a result of last year's drought. A record high yield was estimated in North Dakota.

Nationally, oat producers had seeded 26 percent of this year's acreage by April 1, two percentage points ahead of the previous year but 3 percentage points behind the 5-year average. Producers had seeded 56 percent of the 2018 acreage by May 6, twenty-one percentage points behind the previous year and 18 percentage points behind the 5-year average. Eighty-two percent of the oat acreage was emerged by May 27, eight percentage points behind the previous year and 4 percentage points behind the 5-year average. Heading of the oat acreage advanced to 82 percent complete by July 1, one percentage point behind the previous year but 2 percentage points ahead of the 5-year average. Oat producers had harvested 38 percent of the acreage by July 29, five percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average in 6 of the 9 weekly *Crop Progress* estimating States. Eighty-nine percent of the Nation's oat acreage was harvested by August 26, four percentage points ahead of the previous year and 3 percentage points ahead of the 5-year average.

**Barley**: Production was estimated at 153 million bushels, up 8 percent from the 2017 total of 142 million bushels. Average yield, at 77.4 bushels per acre, was up 4.8 bushels from the previous year. Producers seeded 2.54 million acres in 2018, up 2 percent from 2017. Harvested area, at 1.98 million acres, was up 1 percent from 2017.

Four percent of the Nation's barley was planted by April 8, four percentage points behind the previous year and 8 percentage points behind the 5-year average. Planting progress was behind the historical pace in all estimating States. Nationwide, barley producers had seeded 26 percent of the Nation's acreage by April 29, five percentage points behind the previous year and 18 percentage points behind the 5-year average. All estimating States remained behind their 5-year average planting pace at the end of April. By April 29, emergence was evident in 7 percent of the Nation's barley acreage, 6 percentage points behind the previous year and 10 percentage points behind the 5-year average. Nationally, 97 percent of the barley acreage was sown by June 3, slightly behind the previous year but 2 percentage points ahead of the 5-year average. Eighty-two percent of the barley acreage had emerged by June 3, one percentage point behind both the previous year and the 5-year average. Heading of the Nation's barley acreage advanced to 50 percent complete by July 1, two percentage points ahead of the previous year but 1 percentage point behind the 5-year average. By July 29, barley producers had harvested 2 percent of the Nation's acreage, 3 percentage points behind the previous year and 4 percentage points behind the 5-year average. Overall, 81 percent of the barley acreage was reported in good to excellent condition on August 12, compared with 49 percent at the same time the previous year. At that time, barley condition ratings in the good and excellent categories were 54 percentage points above the previous year in Washington and 45 percentage points above in Montana. By September 9, ninety-two percent of the barley acreage was harvested, 3 percentage points behind the previous year but equal to the 5-year average.

**Winter wheat:** Winter wheat production for 2018 totaled 1.18 billion bushels, down 7 percent from the 2017 total of 1.27 billion bushels. The United States yield, at 47.9 bushels per acre, was down 2.3 bushels from 2017. Area harvested for grain was estimated at a record low 24.7 million acres, down 2 percent from the previous year. Record high yields were estimated in Louisiana, Montana, and Nevada for 2018.

Harvested acreage was down from 2017 in most of the major Hard Red Winter (HRW) growing States, the primary winter wheat producing area. As a result of the decreased harvested acreage and lower yields in 2018, HRW production totaled 662 million bushels, down 12 percent from 2017.

In the Soft Red Winter (SRW) growing area, planted and harvested acreage decreased from 2017 across the region. SRW production totaled 286 million bushels, down 2 percent from 2017.

White winter production totaled 236 million bushels, up 4 percent from the previous year. Harvested acreage in the Pacific Northwest (Idaho, Oregon, and Washington) was up less than 1 percent from 2017. Yields were up from last year throughout the region.

Planting of the 2018 winter wheat acreage began the first week of September, 2017 with progress limited to Colorado, Kansas, Montana, Nebraska, and Washington. By October 1, producers had sown 36 percent of the Nation's 2018 winter wheat acreage, 5 percentage points behind the previous year and 7 percentage points behind the 5-year average. Nationwide, 12 percent of the winter wheat acreage was emerged by October 1, six percentage points behind the previous year and 4 percentage points behind the 5-year average. Emergence was at or behind the 5-year average in 14 of the 18 *Crop Progress* estimating States as of October 1.

Sixty percent of the 2018 winter wheat acreage was sown by October 15, ten percentage points behind the previous year and 11 percentage points behind the 5-year average. Nationally, emergence had advanced to 37 percent complete by October 15, eight percentage points behind the previous year and 6 percentage points behind the 5-year average. Producers had sown 84 percent of the 2018 winter wheat acreage by October 29, slightly behind the previous year and 3 percentage points behind the 5-year average. Idaho was the first State to complete planting. Fifty-two percent of the acreage was reported to be in good to excellent condition on October 29, six percentage points below the same time the previous year.

Ninety-five percent of the 2018 winter wheat acreage was sown by November 12, slightly ahead of the previous year, but equal to the 5-year average. Nationally, emergence had advanced to 84 percent complete by November 12, slightly ahead of both the previous year and the 5-year average. By November 26, emergence was 92 percent complete, equal to both the previous year and the 5-year average. Fifty percent of the 2018 winter wheat acreage was reported in good to excellent condition for the week ending November 26, compared with 58 percent rated in these two categories during the same week the previous year.

On December 31, the majority of the winter wheat acreage in estimating States was estimated to be in fair to good condition. In Kansas, cold, dry conditions caused 75 percent of the acreage to be reported in fair to good condition, 4 percentage points below the same time the previous year.

During the last week of January, the majority of the winter wheat acreage in estimating States was estimated to be in fair to good condition. Drought conditions in Kansas persisted, leading to 55 percent of the State's winter wheat acreage to be rated in fair to good condition, a decrease of 30 percentage points from December. Only 1 percent of Kansas' winter wheat acreage was rated in excellent condition at that time, down from 3 percent in December. Oklahoma's winter wheat acreage appeared to be in the worst condition, with 79 percent of the 2018 acreage rated in poor to very poor condition.

Throughout February, conditions remained similar to the previous month for most of the United States. Winter wheat conditions in Kansas, as of the last week of February, declined as drought conditions persisted; 50 percent of the Kansas' winter wheat acreage was rated in fair to good condition, a decrease of 5 percentage points from the end of January. Only 1 percent of Kansas' winter wheat acreage was rated in excellent condition, unchanged from the previous month. Oklahoma's winter wheat acreage remained in the worst condition, with 78 percent of the 2018 acreage rated in very poor to poor condition, down 1 percentage point from January.

On April 1, thirty-two percent of the 2018 winter wheat acreage was reported in good to excellent condition, compared with 51 percent at the same time last year. By April 15, nine percent of the Nation's winter wheat acreage had reached the headed stage, 9 percentage points behind the previous year and 1 percentage point behind the 5-year average. At that same time, 31 percent of the 2018 winter wheat acreage was reported in good to excellent condition, 23 percentage points below the same time last year. In Kansas, the largest winter wheat-producing State, 12 percent of the winter wheat acreage was rated in good to excellent condition. By April 29, nineteen percent of the Nation's winter wheat acreage had reached the headed stage, 22 percentage points behind the previous year and 11 percentage points behind the 5-year average. On April 29, thirty-three percent of the 2018 winter wheat acreage was reported in good to excellent condition, 21 percentage points below the previous year.

Sixty-one percent of the Nation's winter wheat acreage had reached the headed stage by May 20, ten percentage points behind the previous year and 3 percentage points behind the 5-year average. By June 3, eighty-three percent of the Nation's winter wheat acreage had reached the heading stage, 3 percentage points behind the previous year but equal to the 5-year average. Five percent of the 2018 winter wheat acreage was harvested by June 3, four percentage points behind the previous year but 1 percentage point ahead of the 5-year average. By June 17, ninety-five percent of the winter wheat acreage had reached the heading stage, 1 percentage point behind the previous year but equal to the 5-year average. Twenty-seven percent of the winter wheat acreage was harvested by June 17, one percentage point ahead of last year and 8 percentage points ahead of the 5-year average.

Fifty-one percent of the winter wheat acreage was harvested by July 1, equal to the previous year but 2 percentage points ahead of the 5-year average. In Kansas, 71 percent of the State's winter wheat acreage was harvested by July 1, two percentage points ahead of the previous year and 8 percentage points ahead of the 5-year average. On July 1, thirty-seven percent of the winter wheat acreage was reported in good to excellent condition, 11 percentage points below the same time last year. Sixty-three percent of the 2018 winter wheat acreage was harvested by July 8, two percentage points behind last year but 2 percentage points ahead of the 5-year average. In Kansas, 92 percent of the State's winter wheat acreage was harvested by July 8, two percentage points ahead of last year and 7 percentage points ahead of the 5-year average. Seventy-four percent of the 2018 winter wheat acreage was harvested by July 15, equal to last year but 3 percentage points ahead of the 5-year average. With drier conditions across the Nation during the week ending July 15, winter wheat harvest advanced 20 percentage points or more in California, Colorado, Michigan, and Nebraska. By July 29, producers had harvested 85 percent of the 2018 winter wheat acreage, 2 percentage points behind last year and 1 percentage point behind the 5-year average. Winter wheat harvest was complete or nearing completion in 11 of the 18 *Crop Progress* estimating States by the end of July.

Ninety percent of the 2018 winter wheat acreage was harvested by August 5, three percentage points behind last year and 2 percentage points behind the 5-year average. Winter wheat harvest progressed quickly in Idaho, Montana, Oregon, and Washington, advancing 21 percentage points or more during the week ending August 5. Only 4 of the 18 *Crop Progress* estimating States had harvested less than 90 percent of the winter wheat acreage by August 5. Ninety-four percent of the 2018 winter wheat acreage was harvested by August 12, three percentage points behind last year and 2 percentage points behind the 5-year average. Winter wheat harvest was complete or nearing completion in all estimating States, except Idaho, Montana, and Washington. Ninety-seven percent of the 2018 winter wheat acreage was harvested by August 19, one percentage point behind both last year and the 5-year average. Winter wheat harvest was nearing completion in all States, except Montana and Washington. These two States were behind their 5-year average pace by 6 and 5 percentage points, respectively.

**Other spring wheat:** Production for 2018 was estimated at 623 million bushels, up 50 percent from the revised 2017 total of 415 million bushels. Harvested area totaled 12.9 million acres, up 27 percent from 2017. The United States yield was estimated at a record high 48.3 bushels per acre, 7.3 bushels above 2017. Record high yields were estimated in Idaho and North Dakota for 2018. Of the total production, 587 million bushels were Hard Red Spring wheat, up 53 percent from the revised 2017 total.

Seeding of the 2018 spring wheat acreage began in early April. By April 29, ten percent of the spring wheat acreage was seeded, 20 percentage points behind the previous year and 26 percentage points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all estimating States, except Washington, which had planted 78 percent of the intended acreage by April 29, thirty-one percentage points ahead of the previous year and 1 percentage point ahead of the 5-year average.

Four percent of the Nation's spring wheat acreage had emerged by May 6, fifteen percentage points behind the previous year and 18 percentage points behind the 5-year average. By June 3, ninety-seven percent of the spring wheat acreage was seeded, 2 percentage points behind the previous year but 3 percentage points ahead of the 5-year average. Eighty-one percent of the Nation's spring wheat had emerged by June 3, seven percentage points behind the previous year and 1 percentage point behind the 5-year average. Seventy percent of the Nation's spring wheat acreage was rated in good to excellent condition on June 3, fifteen percentage points above the same time last year.

By June 17, nine percent of the spring wheat acreage was headed, 5 percentage points behind the previous year and 3 percentage points behind the 5-year average. By July 1, fifty-eight percent of the spring wheat acreage had reached the heading stage, 2 percentage points ahead of the previous year and 10 percentage points ahead of the 5-year average. Seventy-seven percent of the Nation's spring wheat was rated in good to excellent condition on July 1, forty percentage points above the same time last year.

By July 22, ninety-six percent of the Nation's spring wheat acreage was at or beyond the heading stage, 1 percentage point ahead of the previous year and 3 percentage points ahead of the 5-year average. Four percent of the spring wheat acreage was harvested by July 29, four percentage points behind last year but equal to the 5-year average. In South Dakota, 35 percent of the 2018 spring wheat was harvested, 8 percentage points behind last year but 14 percentage points ahead of the 5-year average. Seventy-eight percent of the spring wheat acreage was reported in good to excellent condition on July 29, forty-seven percentage points above the same time last year.

By August 19, sixty percent of the Nation's spring wheat acreage was harvested, 5 percentage points ahead of last year and 16 percentage points ahead of the 5-year average. Seventy-four percent of the spring wheat acreage was reported in good to excellent condition as of August 19, forty percentage points above the same time last year. As of September 2, eighty-seven percent of the Nation's spring wheat acreage was harvested, equal to last year but 12 percentage points ahead of the 5-year average.

**Durum wheat:** Production for 2018 was estimated at 77.3 million bushels, up 41 percent from the revised 2017 total of 54.8 million bushels. Area harvested for grain totaled 1.97 million acres, down 7 percent from the previous year. The United States yield was estimated at 39.3 bushels per acre, up 13.3 bushels from the 2017 yield. Production in North Dakota, the largest Durum-producing State, was up 48 percent from 2017. By late July, harvest in Montana was underway. Producers in North Dakota had harvested 9 percent of the State's acreage by August 12.

**Rye:** Production for 2018 was estimated at 8.43 million bushels, down 13 percent from the 2017 total of 9.70 million bushels. Harvested area totaled 273,000 acres, down 13,000 acres from 2017. The United States yield, at 30.9 bushels per acre, was down 3.0 bushels from the previous year.

#### **Statistical Methodology**

**Survey procedures:** Objective yield and farm operator surveys were conducted to gather information on small grain acreage, yield, and production. The objective yield survey was conducted in 10 States that accounted for 70 percent of the 2018 winter wheat production. Early in the growing season, farm operators were interviewed to seek permission to randomly locate two sample plots in selected winter wheat fields. Throughout the growing season, counts such as number of stalks, heads in late boot, and number of emerged heads were collected from these plots. The plots were revisited each month until crop maturity when the heads were clipped, threshed, and weighed. After the farm operator harvested the sample field, enumerators revisited the sample to collect data in order to measure harvesting loss.

Data from operators was collected by mail, internet, telephone, or personal interview to obtain information on crop acreage, yield and production for the 2018 crop year. Approximately 66,300 producers were interviewed during the first two weeks of September and asked questions pertaining to planted and harvested area as well as yield and production.

**Estimating Procedures:** National and State level objective yield and grower reported data were reviewed for reasonableness and consistency with historical estimates. The survey data were also reviewed considering weather patterns and crop progress compared with previous years. Each Regional Field Office submits an estimate and written analysis for their State to the Agricultural Statistics Board (ASB). The ASB uses the survey data, administrative data, and the State analysis to prepare the estimates published in this report.

**Revision Policy:** Estimates contained in this report may be revised in the *Crop Production Annual Summary* report published in January should new information become available. Previous year acreage, yield, and production estimates can be revised in the *Small Grain Summary* published the following year, if new information is available that would justify a change. Estimates will also be reviewed after data for the 5-year Census of Agriculture are available. No revisions will be made after that date.

**Reliability:** The surveys used to make the acreage, yield, and production estimates contained in this report are subject to sampling and non-sampling type errors that are common to all surveys. Reliability of the objective yield and farmer survey must be treated separately because the survey designs for the two surveys are different. The objective yield indications are subject to sampling variability because all acres of winter wheat are not included in the sample.

The farm operator survey indications are also subject to sampling variability because all operations with small grains are not included in the sample. This variability, as measured by the relative standard error at the National level, is approximately 1.7 percent for winter wheat, 6.1 percent for Durum wheat, and 3.4 percent for other spring wheat. This means that chances are approximately 95 out of 100 that survey estimates for production will be within plus or minus 3.4 percent for winter wheat, 12.2 percent for Durum wheat, and 6.8 percent for other spring wheat of the value that could be developed by averaging the estimates produced from all possible samples selected from the same population and surveyed using the same procedures. The relative standard errors for barley, oats, and rye are 5.2, 5.4, and 6.4 percent, respectively.

Survey indications are also subject to non-sampling errors such as omission, duplication, imputation for missing data, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but they are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

### **Information Contacts**

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov

Lance Honig, Chief, Crops Branch	(202) 720-2127
Anthony Prillaman, Head, Field Crops Section	(202) 720-2127
Natasha Bruton – Current Agricultural Industrial Reports	
David Colwell – Current Agricultural Industrial Reports	(202) 720-3338
Chris Hawthorn – Corn, Flaxseed, Proso Millet	(202) 720-9526
James Johanson – County Estimates, Hay	(202) 690-8533
Jeff Lemmons – Oats, Soybeans	(202) 690-3234
Jannety Mosley – Crop Weather, Barley	(202) 720-7621
Sammy Neal – Peanuts, Rice	(202) 720-7688
Jean Porter – Rye, Wheat	(202) 720-8068
Bianca Pruneda – Cotton, Cotton Ginnings, Sorghum	(202) 720-5944
Travis Thorson – Sunflower, Other Oilseeds	(202) 720-7369

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For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@nass.usda.gov.

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